

FS-00-001



March 18, 2002

*Ref 2631*  
*[Signature]*

To: Commissioner of Patents and Trademarks  
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Fr: George O. Saile, Reg. No. 19,572  
20 McIntosh Drive  
Poughkeepsie, N.Y. 12603

**MAR 29 2002**

**Technology Center 2600**

Subject:

Serial No. 10/041,044 01/09/02

Y.C. Lin

NEW FILTER BANK FOR GRAPHICS  
EQUALIZER IMPLEMENTATION

Grp. Art Unit: 2631

**INFORMATION DISCLOSURE STATEMENT**

Enclosed is Form PTO-1449, Information Disclosure Citation  
In An Application.

The following Patents and/or Publications are submitted to  
comply with the duty of disclosure under CFR 1.97-1.99 and  
37 CFR 1.56. Copies of each document is included herewith.

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being  
deposited with the United States Postal Service as first class  
mail in an envelope addressed to: Commissioner of Patents and  
Trademarks, Washington, D.C. 20231, on March 22, 2002.

Stephen B. Ackerman, Reg.# 37761

Signature/Date

*[Signature]* 3/22/02

U.S. Patent 4,284,965 to Higashi et al., "Tone Control Device," describes a tone control device comprised of multiple mixers and at least one band rejection filter.

U.S. Patent 5,524,022 to Kihara et al., "Digital Graphic Equalizer," describes a digital graphic equalizer used to obtain a boost characteristic and an attenuation characteristic using band pass filters constituted by a digital filter and an adder.

U.S. Patent 5,418,859 to Cho, "Correcting Apparatus of Sound Signal Distortion by Way of Audio Frequency Band Segmentation," describes a correcting apparatus of sound signal distortion by means of segmenting the audio frequency band more heavily in the low frequency bands than in the high frequency bands.

U.S. Patent 4,891,841 to Bohn, "Reciprocal, Subtractive, Audio Spectrum Equalizer," describes an equalizer circuit having adjustable band pass filters connected with operational amplifiers in feedforward and feedback paths so as to form frequency selective boost and cut signal components.

U.S. Patent 5,892,833 to Maag et al., "Gain and Equalization System and Method," describes a multi-band digital gain and equalizer system for receiving and processing audio signals.

U.S. Patent 4,316,060 to Adams et al., "Equalizing System," describes a system for modifying an input signal representative of original sound so as to correct for nonflat frequency response distortion caused by the audio equipment and listening environment.

U.S. Patent 5,194,832 to Iga, "Transversal Equalizer," describes an equalizer having a specified number of rear taps.

U.S. Patent 4,845,758 to Op de Beek et al., "Equalizer with Adjustable Band Filters and a Digital Filter Suitable for Use in the Equalizer," describes a manually operated or automatic equalizer with adjustable band filters.

U.S. Patent 5,841,810 to Wong et al., "Multiple Stage Adaptive Equalizer," describes an adaptive equalizer which includes multiple, serially coupled adaptive filter stages.

Sincerely,



Stephen B. Ackerman,  
Reg. No. 37761

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

(Use several sheets if necessary)

Document Number (Optional)

FS-00-001

Application Number

10/041,044

Applicant

Y. C. Lim

Filing Date

01/09/02

Group Art Unit

2631

## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4284965	8/18/81	Higashi et al.	333	28T	9/10/79
	5524022	6/4/96	Kihara et al.	375	229	8/9/94
	5418859	5/23/95	Cho	381	98	8/23/93
	4891841	1/2/90	Bohn	351	98	2/22/88
	4316060	2/16/82	Adams et al.	179	10	1/4/80
	5892833	4/6/99	Maag et al.	381	98	2/5/98
	5194832	3/16/93	Iga	333	18	8/16/91
	4845758	7/4/89	Op de Beek et al.	381	98	6/26/86
	5841810	11/24/98	Wong et al.	375	232	1/30/97

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

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## OTHER DOCUMENTS (Including Author, Title, Date, Portion(s) Pages, Etc.)


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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.